# MONTHLY BULLETIN

OF

# THE OBSERVATORY

## AMERICAN UNIVERSITY OF BEIRUT

BEIRUT, LEBANON

LAT. 33° 54' 22" N.

LONG. E. FROM GREENWICH 35° 28' 10"

**APRIL 1951**

ROBERT W. SLOANE, DIRECTOR

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WEATHER BUREAU

# APRIL 1951

## METEOROLOGICAL REGISTER

| Date | Barometer reduced to O°C Sea level and 45° Latitude 700 mm. +... | | | | Thermometer Degrees Centigrade | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | 8:30 | 14:30 | 20:30 | Mean | Max. | Min. | 8:30 | 14:30 | 20:30 | Mean |
| 1 | 63.4 | 61.5 | 62.3 | 62.4 | 21.2 | 14.8 | 19.1 | 20.7 | 16.7 | 18.8 |
| 2 | 62.0 | 61.2 | 62.0 | 61.7 | 21.4 | 15.6 | 19.3 | 20.5 | 17.5 | 19.1 |
| 3 | 62.3 | 62.0 | 61.8 | 62.0 | 23.2 | 17.3 | 20.1 | 22.7 | 18.8 | 20.5 |
| 4 | 61.8 | 60.6 | 60.0 | 60.8 | 23.7 | 18.3 | 21.1 | 23.3 | 19.3 | 21.2 |
| 5 | 58.9 | 58.2 | 57.3 | 58.1 | 26.1 | 18.2 | 21.3 | 25.1 | 19.4 | 21.9 |
| 6 | 60.2 | 61.6 | 61.8 | 61.2 | 20.5 | 14.7 | 19.7 | 18.0 | 16.1 | 17.9 |
| 7 | 61.6 | 61.4 | 61.7 | 61.6 | 21.6 | 14.7 | 18.8 | 20.4 | 17.2 | 18.8 |
| 8 | 62.4 | 62.6 | 62.9 | 62.6 | 21.9 | 15.6 | 19.0 | 20.4 | 16.2 | 18.5 |
| 9 | 63.4 | 63.7 | 64.6 | 63.9 | 21.8 | 14.8 | 18.3 | 21.1 | 16.7 | 18.7 |
| 10 | 64.6 | 64.4 | 64.8 | 64.6 | 22.4 | 14.4 | 19.3 | 22.4 | 16.2 | 19.3 |
| 11 | 65.3 | 64.7 | 64.6 | 64.9 | 21.4 | 15.4 | 18.9 | 20.5 | 17.1 | 18.8 |
| 12 | 64.2 | 63.3 | 63.3 | 63.6 | 22.4 | 16.4 | 20.1 | 22.2 | 18.2 | 20.2 |
| 13 | 62.6 | 61.8 | 61.6 | 62.0 | 26.4 | 18.9 | 22.1 | 22.8 | 20.1 | 21.7 |
| 14 | 60.6 | 59.2 | 58.1 | 59.3 | 29.5 | 20.6 | 25.9 | 28.3 | 24.4 | 26.2 |
| 15 | 58.3 | 58.4 | 58.9 | 58.5 | 28.5 | 18.9 | 26.5 | 24.6 | 22.2 | 24.4 |
| 16 | 59.6 | 58.5 | 58.5 | 58.9 | 24.9 | 18.4 | 20.9 | 23.9 | 19.4 | 21.4 |
| 17 | 59.6 | 57.9 | 57.5 | 58.3 | 23.6 | 18.4 | 21.7 | 22.8 | 19.4 | 21.3 |
| 18 | 58.4 | 56.8 | 57.9 | 57.7 | 24.5 | 14.4 | 19.9 | 22.1 | 17.2 | 19.7 |
| 19 | 57.7 | 58.4 | 59.1 | 58.4 | 20.4 | 16.1 | 16.4 | 20.0 | 17.7 | 18.0 |
| 20 | 60.6 | 60.4 | 61.1 | 60.7 | 21.4 | 15.5 | 19.4 | 21.1 | 17.8 | 19.4 |
| 21 | 61.6 | 61.2 | 61.1 | 61.3 | 22.2 | 13.5 | 18.9 | 22.1 | 17.1 | 19.4 |
| 22 | 59.3 | 56.7 | 53.0 | 56.3 | 23.4 | 17.5 | 20.0 | 22.8 | 18.9 | 20.6 |
| 23 | 53.5 | 51.2 | 53.4 | 52.7 | 24.0 | 15.9 | 18.9 | 22.3 | 18.3 | 19.8 |
| 24 | 56.9 | 58.4 | 57.5 | 57.6 | 21.1 | 12.2 | 18.9 | 20.0 | 17.1 | 18.7 |
| 25 | 56.4 | 57.2 | 59.3 | 57.6 | 19.4 | 13.4 | 15.1 | 18.2 | 15.2 | 16.2 |
| 26 | 60.8 | 61.0 | 60.3 | 60.7 | 22.7 | 13.9 | 19.3 | 22.7 | 16.8 | 19.6 |
| 27 | 61.0 | 59.9 | 60.3 | 60.4 | 22.8 | 16.4 | 18.9 | 22.1 | 17.8 | 19.6 |
| 28 | 60.9 | 60.8 | 61.3 | 61.0 | 23.1 | 16.7 | 21.7 | 22.8 | 18.3 | 20.9 |
| 29 | 62.2 | 62.1 | 62.5 | 62.3 | 25.4 | 17.9 | 20.7 | 25.2 | 19.4 | 21.8 |
| 30 | 62.7 | 62.5 | 61.6 | 62.3 | 25.9 | 17.8 | 21.8 | 24.0 | 19.6 | 21.8 |
| 31 | | | | | | | | | | |
| | 60.76 | 60.25 | 60.34 | 60.45 | 23.23 | 16.22 | 20.07 | 22.17 | 18.20 | 20.14 |

Barometer, range for month 765.3 mm. — 751.2 mm.

,, 71-yr. average for month 760.03 mm.

Thermometer, range for month 29.5°C —12.2°C

,, 71-yr. average for month 19.16°C.

Rain total for month 55.37 mm.

,, 71-yrs. average for month 55.16 mm.

,, Tolal, Sept. 1st. to end of month 686.06 mm.

,, 71-yr. average, Sept. 1st. to end of month 870.00 mm

# APRIL 1951

## METEOROLOGICAL REGISTER

| Date | Pressure of Water Vapor Millibars | | | | Relative Humidity per cent. | | | | sun. | Wind per day | Rain |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 8:30 | 14:30 | 20:30 | Mean | 8:30 | 14:30 | 20:30 | Mean | Hrs. | Kms. | m.m. |
| 1 | 18.5 | 18.0 | 17.2 | 17.9 | 84 | 73 | 91 | 83 | 10.1 | 204.0 | |
| 2 | 18.4 | 19.3 | 18.5 | 18.7 | 81 | 79 | 93 | 84 | 9.8 | 163.0 | |
| 3 | 18.8 | 21.0 | 17.3 | 19.0 | 77 | 76 | 80 | 78 | 10.2 | 280.0 | |
| 4 | 20.0 | 21.2 | 16.8 | 19.3 | 80 | 74 | 76 | 77 | 10.4 | 291.0 | |
| 5 | 18.7 | 17.7 | 15.1 | 17.2 | 73 | 56 | 67 | 65 | 10.0 | 262.0 | |
| 6 | 17.6 | 14.5 | 11.9 | 14.7 | 77 | 70 | 65 | 71 | 7.2 | 351.0 | |
| 7 | 12.1 | 13.6 | 12.5 | 12.7 | 55 | 56 | 64 | 58 | 6.9 | 325.0 | |
| 8 | 15.0 | 15.4 | 14.7 | 15.0 | 67 | 63 | 80 | 70 | 8.0 | 306.0 | 1.27 |
| 9 | 14.9 | 15.4 | 13.6 | 14.6 | 71 | 62 | 72 | 68 | 9.1 | 132.0 | |
| 10 | 14.5 | 13.5 | 13.0 | 13.7 | 65 | 49 | 71 | 62 | 8.4 | 146.0 | |
| 11 | 14.8 | 16.1 | 14.5 | 15.1 | 68 | 66 | 74 | 69 | 10.3 | 158.0 | |
| 12 | 15.5 | 19.3 | 18.7 | 17.8 | 71 | 72 | 89 | 77 | 10.6 | 270.0 | |
| 13 | 20.4 | 19.9 | 17.7 | 19.3 | 76 | 71 | 76 | 74 | 11.0 | 185.0 | |
| 14 | 13.6 | 16.8 | 6.8 | 12.4 | 41 | 43 | 22 | 35 | 11.3 | 100.0 | |
| 15 | 11.3 | 13.7 | 16.2 | 13.7 | 32 | 45 | 60 | 46 | 2.4 | 85.0 | |
| 16 | 20.5 | 21.3 | 20.8 | 20.9 | 83 | 71 | 92 | 82 | 4.7 | 227.0 | |
| 17 | 18.4 | 19.9 | 20.2 | 19.5 | 71 | 71 | 89 | 77 | 6.9 | 156.0 | |
| 18 | 19.7 | 17.2 | 18.0 | 18.3 | 85 | 64 | 91 | 80 | 0.8 | 612.0 | 10.93 |
| 19 | 17.1 | 16.4 | 16.4 | 16.6 | 91 | 70 | 81 | 81 | 0.1 | 420.0 | 23.11 |
| 20 | 15.6 | 14.9 | 15.3 | 15.3 | 68 | 59 | 75 | 67 | 6.8 | 496.0 | |
| 21 | 15.0 | 16.7 | 15.6 | 15.8 | 69 | 63 | 80 | 71 | 10.9 | 282.0 | 0.76 |
| 22 | 7.9 | 13.6 | 16.1 | 12.5 | 34 | 49 | 74 | 52 | 10.2 | 262.0 | |
| 23 | 12.9 | 17.1 | 16.9 | 15.6 | 59 | 64 | 80 | 68 | 8.1 | 414.0 | 2.28 |
| 24 | 15.0 | 12.6 | 11.1 | 12.9 | 69 | 54 | 58 | 60 | 5.7 | 521.8 | 3.05 |
| 25 | 10.2 | 10.1 | 12.9 | 11.1 | 60 | 49 | 69 | 59 | 6.1 | 795.0 | 13.97 |
| 26 | 14.6 | 14.3 | 14.9 | 14.6 | 65 | 51 | 77 | 64 | 13.1 | 251.0 | |
| 27 | 12.9 | 14.4 | 16.2 | 14.5 | 59 | 53 | 79 | 64 | 12.1 | 278.0 | |
| 28 | 18.6 | 19.1 | 18.7 | 18.8 | 72 | 69 | 88 | 76 | 13.2 | 322.0 | |
| 29 | 18.2 | 21.6 | 18.6 | 19.5 | 74 | 68 | 82 | 75 | 10.4 | 47.0 | |
| 30 | 19.0 | 21.3 | 19.9 | 20.1 | 73 | 72 | 88 | 78 | 9.1 | 82.0 | |
| 31 | | | | | | | | | | | |
| | 15.99 | 16.86 | 15.87 | 16.24 | 68.3 | 62.7 | 76.1 | 69.0 | 8.46 | 280.76 | 1.84 |

Height of Barometer above sea level: 33.7 meters.

" " Thermometers above ground:

Dry and wet 1.55 m ; Max. 1.75 m.; Min. 1.70 m.

Rim of Rain Gauge: above ground 0.56 m ; above sea level 30.31 m

Time of reading minus 2 hours equal G.C.T.

71year averages are for period, 1875-1945

# APRIL 1951

## METEOROLOGICAL REGISTER

| Date | Clouds clear—0 Overcast—10 | | | | Direction and force of wind Beaufort scale | | | Sea | Notes |
|---|---|---|---|---|---|---|---|---|---|
| | 8:30 | 14:30 | 20:30 | Mean | 8:30 | 14:30 | 20:30 | | |
| 1 | 0 | 1ci | 0 | 0.3 | 2nw | 3ne | 1ne | light | |
| 2 | 7ci | 5ci | 3ci | 5.0 | 2n | 1n | 1n | calm | D. p.m. |
| 3 | 2ci | 1ci | 0 | 1.0 | 2sw | 3nw | 1nw | light | |
| 4 | 7ci | 0 | 0 | 2.3 | 2nw | 2n | 1ne | ,, | |
| 5 | 1ci | 1ci | 8st | 3.3 | 2w | 1ne | 2e | calm | |
| 6 | 7st | 10st | 5cu-st | 7.3 | 4sw | 3sw | 2sw | mod. | |
| 7 | 3cu | 7st-cu | 6st | 5.3 | 2sw | 3sw | 2w | slight | |
| 8 | 4cu-ci | 7ci-st | 4cu | 5.0 | 2sw | 3nw | 1nw | ,, | |
| 9 | 6cu-ci | 0 | 4cu | 3.3 | 1w | 1nw | 1n | light | |
| 10 | 8cu | 3cu-ci | 3cu-ci | 4.3 | 2sw | 2w | 1w | light | |
| 11 | 0 | 1cu | 0 | 3.3 | 2w | 2nw | 1n | ,, | |
| 12 | 0 | 0 | 0 | 0.0 | 2sw | 3ne | 2ne | slight | |
| 13 | 0 | 0 | 0 | 0.0 | 2ne | 1ne | 1ne | light | D. a.m. |
| 14 | 0 | 0 | 0 | 0.0 | 2sw | 1ne | 1ne | calm | Excellent Visibility |
| 15 | 9ci-st | 10st | 9st-ci | 9.3 | 1nw | 1nw | 3nw | calm | |
| 16 | 10st | 4st-cu | 8st-cu | 7.3 | 2ne | 3ne | 2ne | slight | H. |
| 17 | 3st | 4cu-ci | 6st-ci | 4.3 | 1w | 1ne | 3ne | light | H. |
| 18 | 10cu-ni | 10st-ni | 10cu-ni | 10.0 | 3nw | 3nw | 1ne | slight | W. a.m.; T. p.m |
| 19 | 10ni | 10cu-ni | 6cu | 8.7 | 3w | 3sw | 4sw | ,, | |
| 20 | 7cu | 4cu | 7cu | 6.0 | 4sw | 4sw | 4sw | slight | |
| 21 | 2cu | 2ci | 1ci | 1.7 | 4sw | 2sw | 2sw | ,, | |
| 22 | 4ci | 8ci | 2ci | 4.7 | 2sw | 2ne | 1ne | calm | |
| 23 | 10-ni | 0 | 6cu | 5.3 | 3sw | 3sw | 3sw | slight | W. a.m. |
| 24 | 5cu | 8ci-st | 7cu | 6.7 | 4sw | 3sw | 2sw | mod. | |
| 25 | 8cu-ni | 7cu | 6cu | 7.0 | 5w | 6sw | 4sw | rough | G. ; T. |
| 26 | 1cu | 0 | 0 | 0.3 | 3w | 2w | 2w | slight | |
| 27 | 7ci-st | 1ci | 0 | 2.7 | 1w | 1sw | 1sw | light | |
| 28 | 0 | 0 | 0 | 0.0 | 1w | 3ne | 1ne | ,, | |
| 29 | 0 | 2ci | 0 | 0 7 | 2ne | 2ne | 1ne | ,, | |
| 30 | 0 | 8ci-st | 0 | 2.7 | 1ne | 1ne | 1ne | ,, | |
| 31 | | | | | | | | | |
| | | | | 3.83 | | | | | |

Abbreviations :— G = gale; H = haze; M = mist ; T = thunderstorm ; D = dew.
W = strong wind; Tr = trace of rain

### NUMBER OF DAILY WIND OBSERVATIONS

| Time | N | NE | E | SE | S | SW | W | NW | Calm | Totals |
|---|---|---|---|---|---|---|---|---|---|---|
| 8:30 | 1 | 4 | 0 | 0 | 0 | 12 | 9 | 4 | 0 | 30 |
| 14:30 | 2 | 11 | 0 | 0 | 0 | 8 | 3 | 6 | 0 | 30 |
| 20:30 | 3 | 12 | 1 | 0 | 0 | 7 | 4 | 3 | 0 | 30 |
| Total | 6 | 27 | 1 | 0 | 0 | 27 | 16 | 13 | 0 | 90 |

Number of days with rain 7, fog 0, thunderstorms 2, gale 1.

71 yr. av. number of days with rain during month 6.23